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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/818,043	03/26/2001	Harald Brusewitz	34645-00507USPT	1350

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PLANO, TX 75024

EXAMINER

PHILIPPE, GIMS S

ART UNIT	PAPER NUMBER
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2613

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DATE MAILED: 04/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/818,043

Applicant(s)

BRUSEWITZ, HARALD

Examiner

Gims S Philippe

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11, 13-15 and 17 is/are rejected.
- 7) ☒ Claim(s) 10, 12, 16, 18 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>4</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

This is a first action in response to application no. 09/818,043 filed on March 26, 2001 in which claims 1-18 are presented for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-4, 7-9, 11, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (US Patent no. 6175592).

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Regarding claim 1, 7, 11, and 17, Kim discloses an apparatus and method for decoding a compressed video bit stream corresponding to a compressed video signal having a first resolution to a video signal having a second resolution lower than the first resolution (See Kim col. 2, lines 44-51), and comprising downscaling the compressed video bitstream (See Kim col. 5, lines 2-9), and thereafter, decoding the downscaled compressed video bit stream to provide the video signal having the second resolution (See Kim col. 20, lines 29-36).

As per claims 2-3, most of the limitations of these claims have been noted in the above rejection of claim 1. In addition, Kim further removes the high frequency components to provide a bitstream having a modified block size smaller than the give size (See Kim col. 6, lines 45-56).

As per claims 4, 8-9, most of the limitations of these claims have been noted in the above rejection of claim 1. In addition, Kim further discloses providing modified block size of $k \times k$ where $k < 8$ for 8×8 DCT blocks (See Kim col. 11, lines 8-18 and col. 14, lines 15-19).

3. Claim 6, 13-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Boyce et al. (US Patent no. 6,563,876).

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Regarding claim 13, Kim discloses a method for decoding a compressed video bit stream corresponding to a compressed video signal having a first resolution to a video signal having a second resolution equal to or higher than the first resolution (See Boyce col. 18, lines 14-26), decoding the compressed video bitstream using a modified prediction (See col. 10, lines 53-67), using the video signal to display an image of a portion of a display unit having the second resolution (See col. 18, lines 36-53).

As per claim 6, the limitations of this claim have been noted in the rejection of claim 13.

As per claim 14, most of the limitations of these claims have been noted in the above rejection of claim 13. In addition, Kim further removes the high frequency components to provide a bitstream having a modified block size smaller than the give size (See Kim col. 6, lines 45-56).

As per claim 15, most of the limitations of these claims have been noted in the above rejection of claim 1. In addition, Kim further discloses providing modified block size of $k \times k$ where $k < 8$ for 8×8 DCT blocks (See Kim col. 11, lines 8-18 and col. 14, lines 15-19).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US Patent no. 6,175,592) in view of Boyce (US Patent no. 6,343,098).

Regarding claim 5, most of the limitations of this claim have been noted in the above rejection of claim 1.

It is noted that Kim is silent about first and second resolutions being CIF and QCIF, respectively.

However, Boyce discloses a decoding method including the steps of providing first and second resolutions being CIF and QCIF, respectively (See Boyce col. 4, lines 55-65).

Therefore, it is considered obvious that one skilled in the art at the time of the invention would recognize the advantage of providing first and second resolutions to be CIF and QCIF, respectively. The motivation for such modification in Kim is to reduce interframe redundancy and facilitate encoding as taught by Boyce (See Boyce col. 6, lines 6-10).

6. Claims 10, 12, 16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Boyce et al. (US Patent no. 5825927) teaches method and apparatus for encoding video data in a manner that is well suited for decoding by regular or downconverting decoders.

Pearlstein et al. (US Patent no. 6668018) teaches method and apparatus for representing different portions of an image at different resolutions.

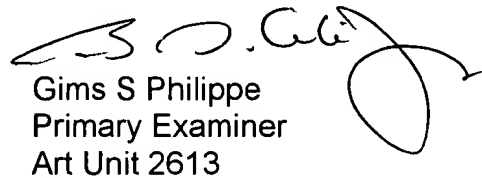
Pearlstein et al. (US Patent no. 6148033) teaches method and apparatus for improving picture quality in reduced resolution video decoders.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S Philippe whose telephone number is (703) 305-1107. The examiner can normally be reached on M-F (9:30-7:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S Kelley can be reached on (703) 305-4780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Gims S Philippe
Primary Examiner
Art Unit 2613

GSP

April 17, 2004